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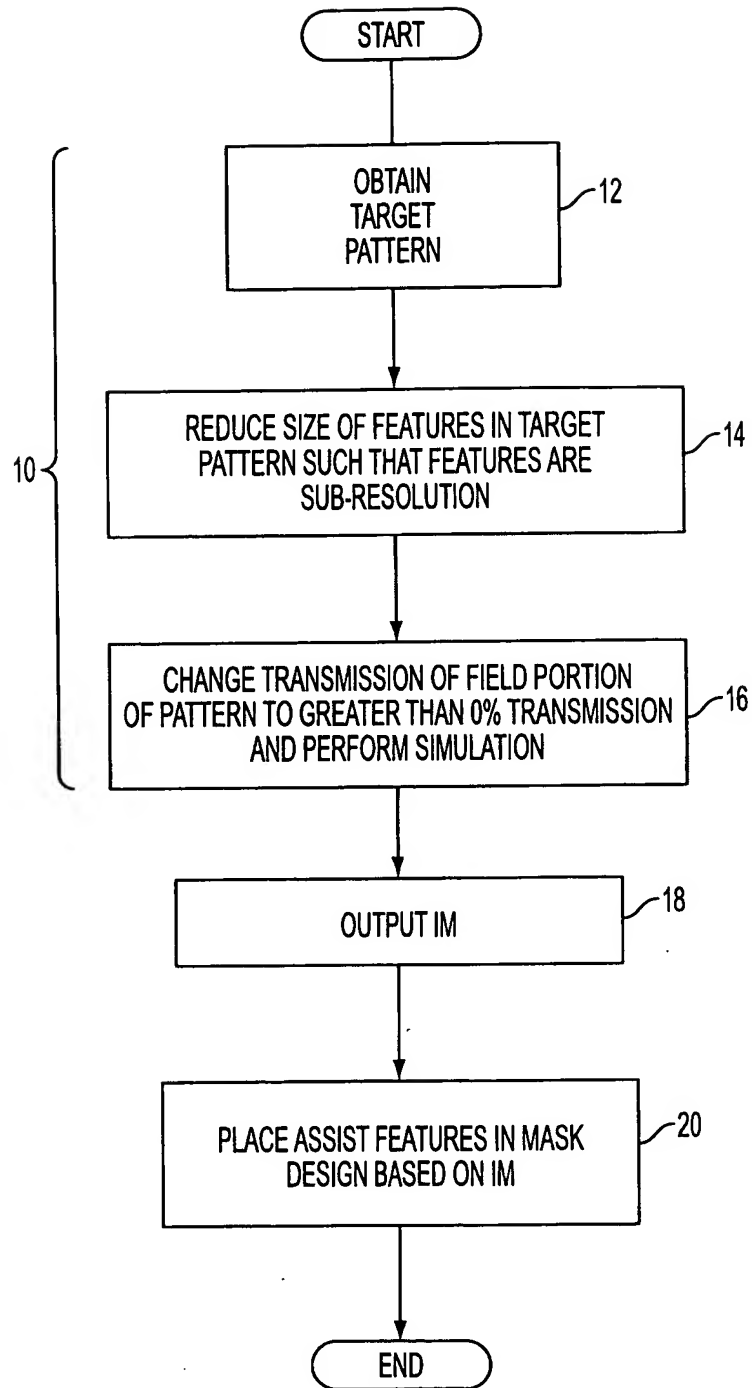


FIG. 1

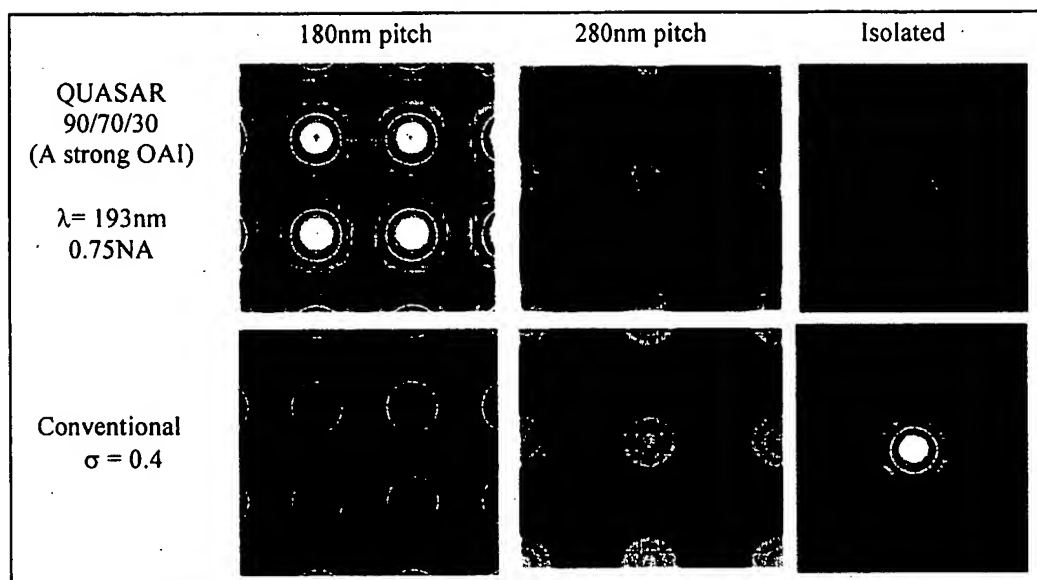
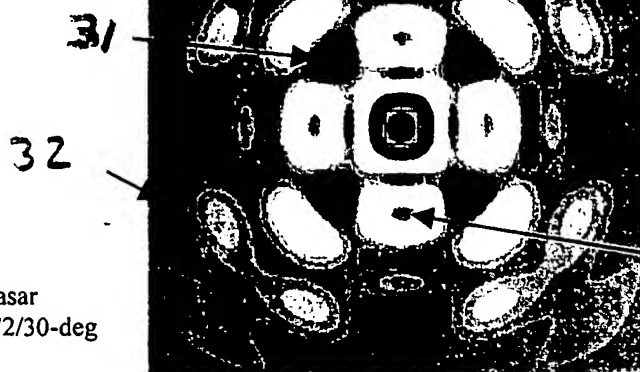


FIG. 2

FIG. 3a



(a) Quasar
0.92/0.72/30-deg

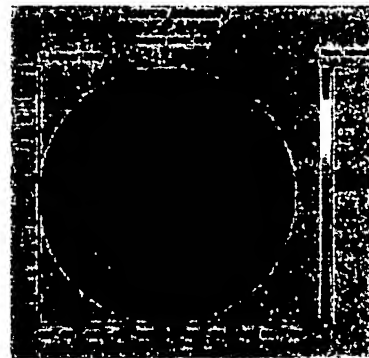
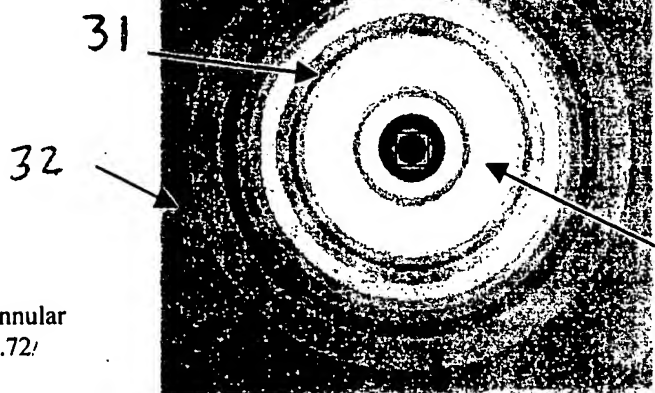


FIG. 3b

33

FIG. 3c



(b) Annular
0.92/0.72/

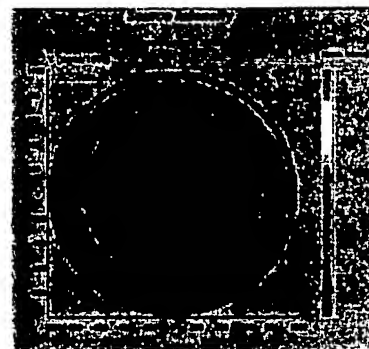
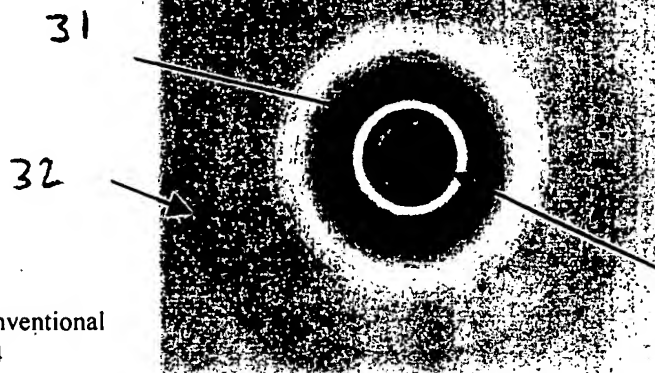


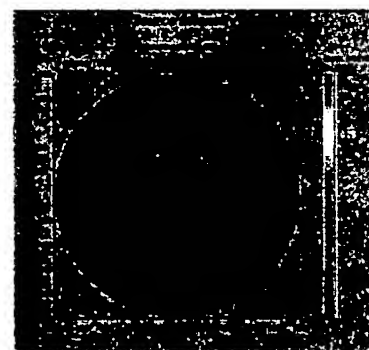
FIG. 3c

33

FIG. 3e



(c) Conventional
 $\sigma = 0.4$



33

1. Contact hole is defined as a non-phase shifted region
2. Open geometries are non-printing (but not sub-resolution) regions of non-phase shifted pattern
3. Shaded geometries are non-printing (but not necessarily sub-resolution) regions of 180 degree phase shifted patterns

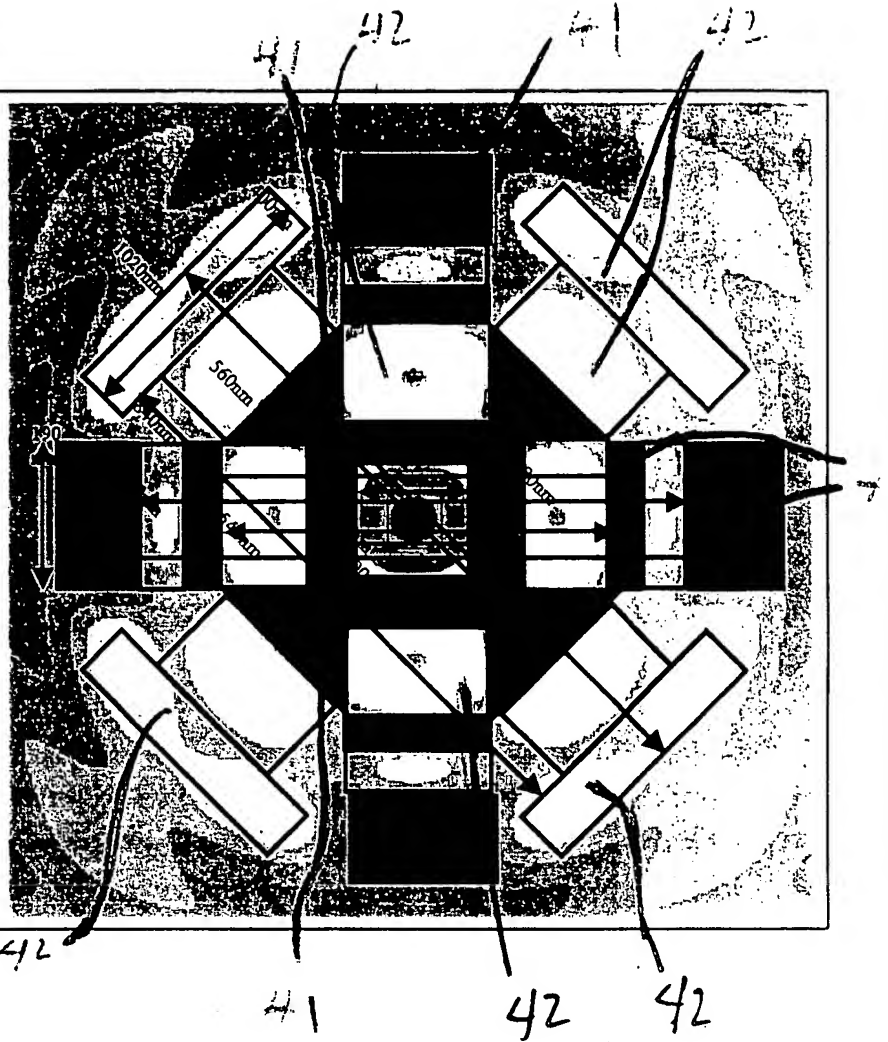


FIG. 4

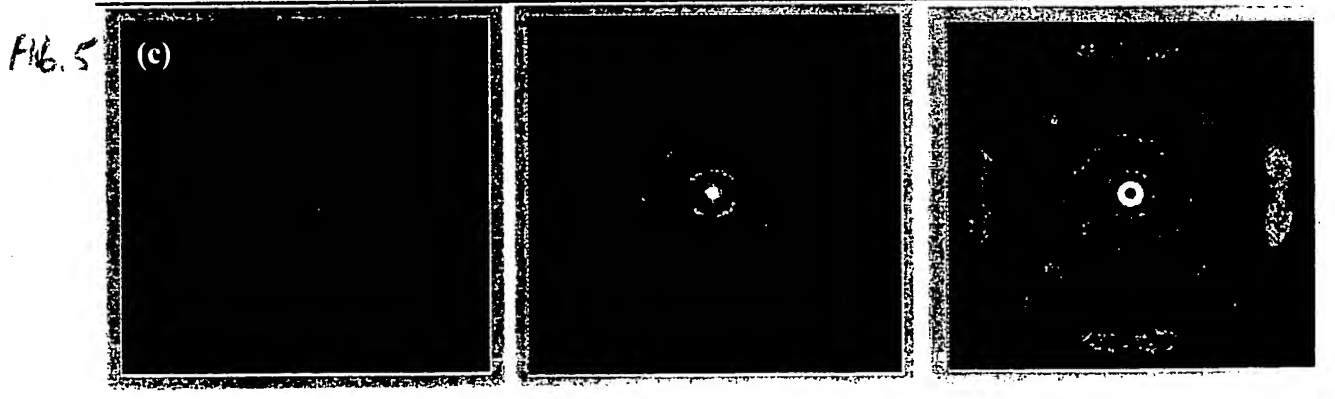
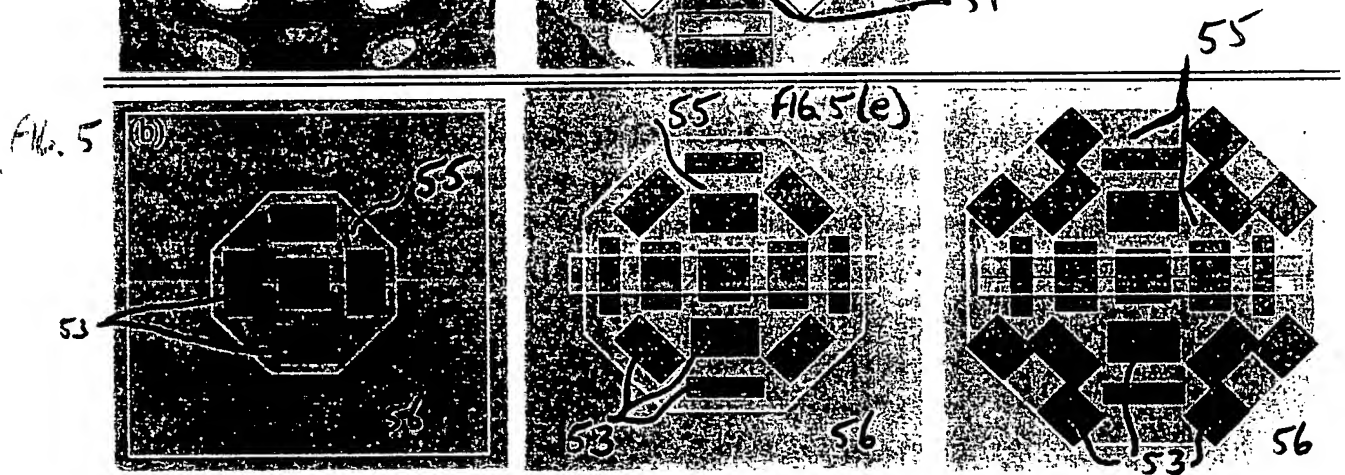
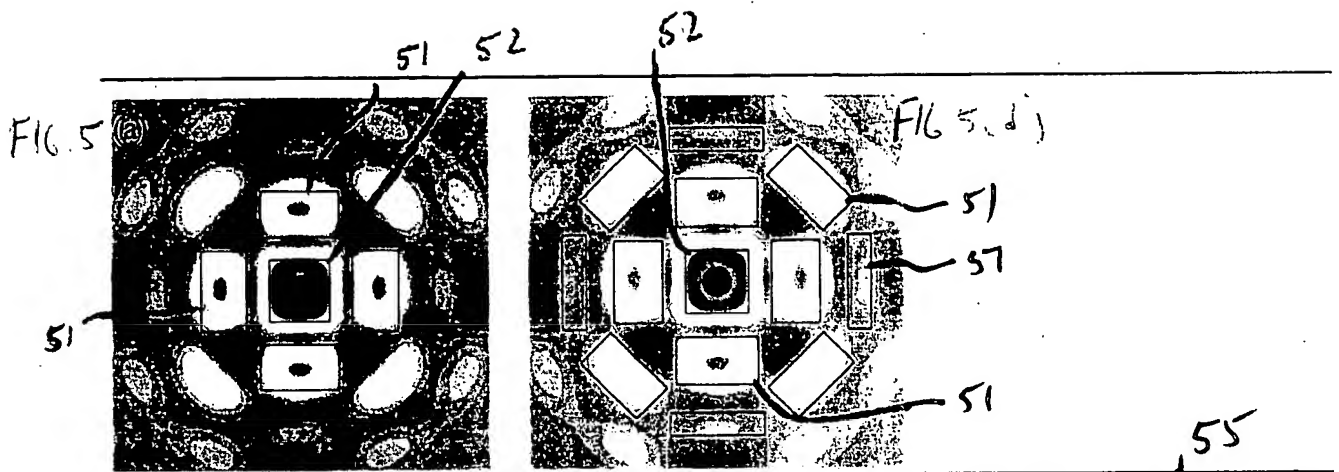


FIG. 5 (f)

FIG. 6

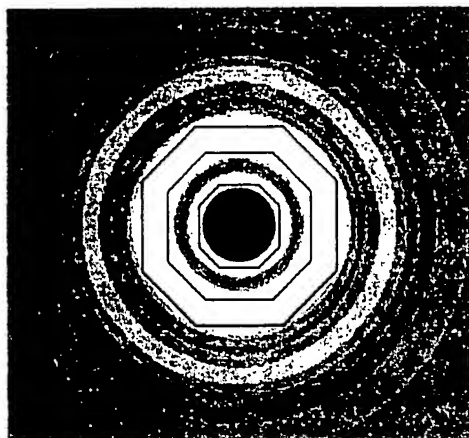


FIG. 6(b)

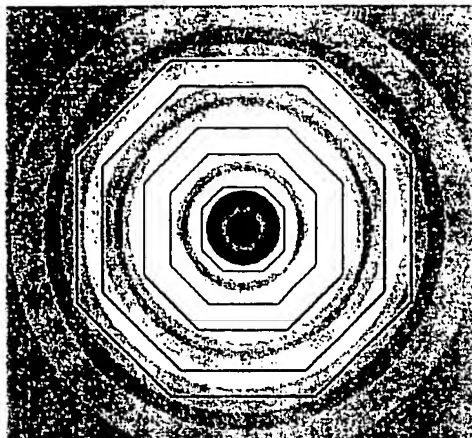


FIG. 6

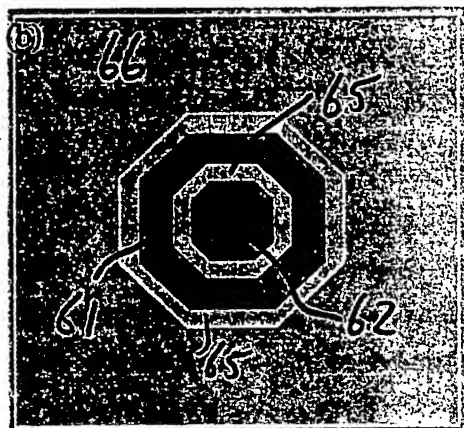


FIG. 6(c)

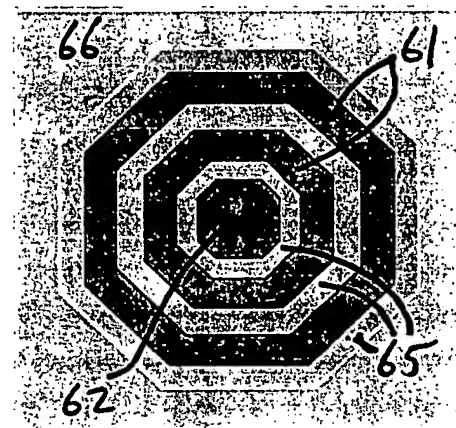


FIG. 6

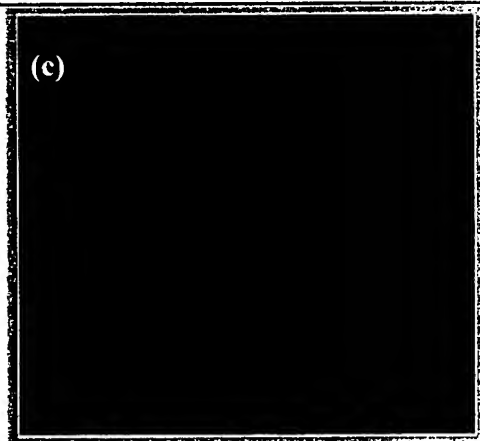
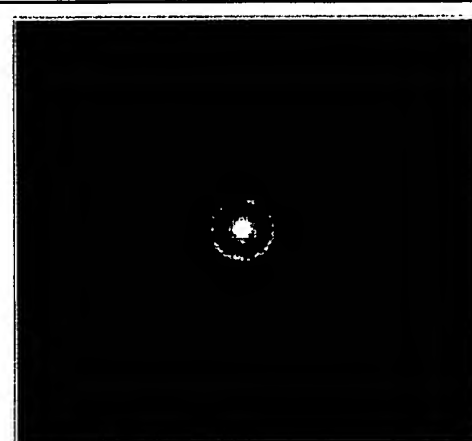


FIG. 6(d)



F16.7

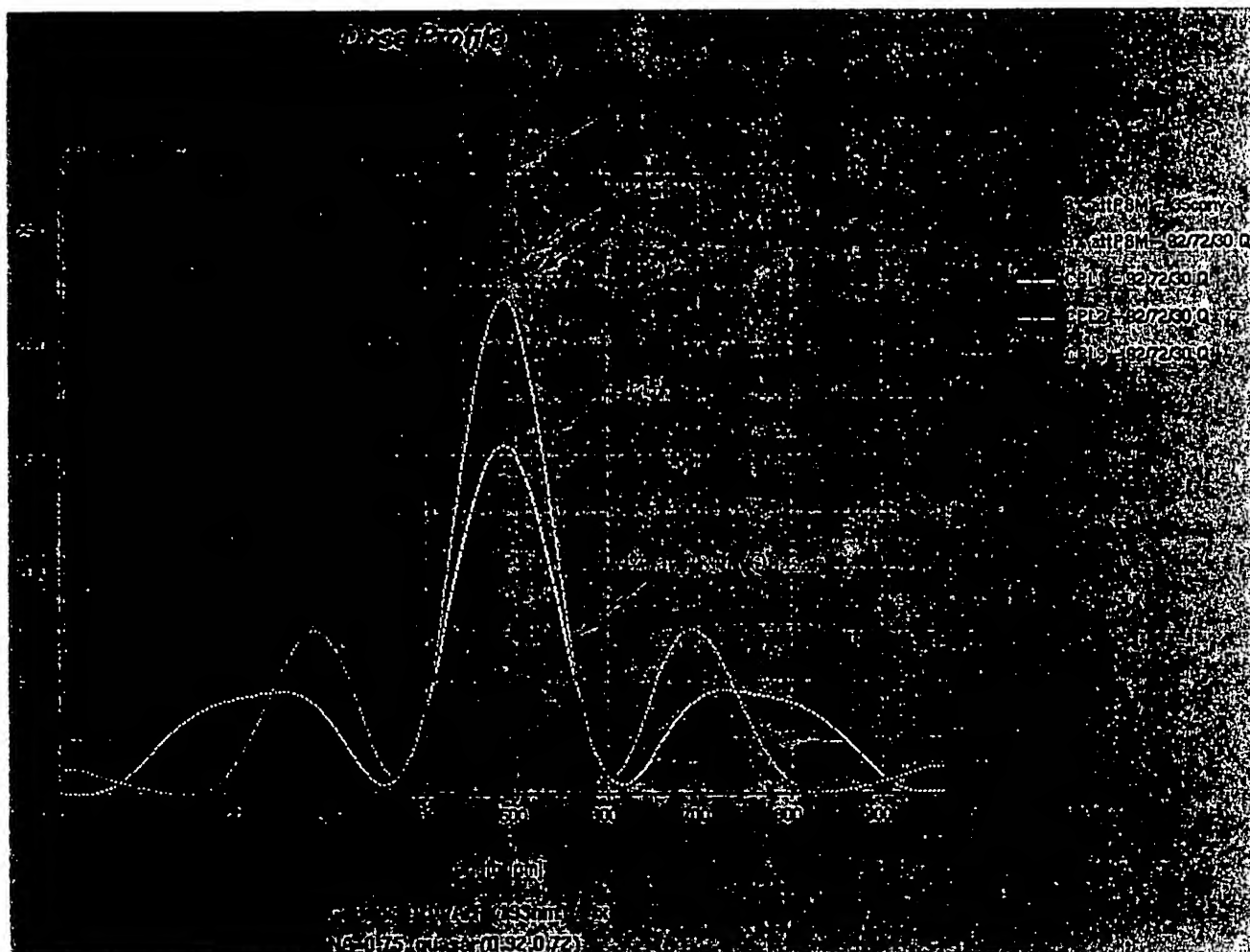


FIG 9(a)

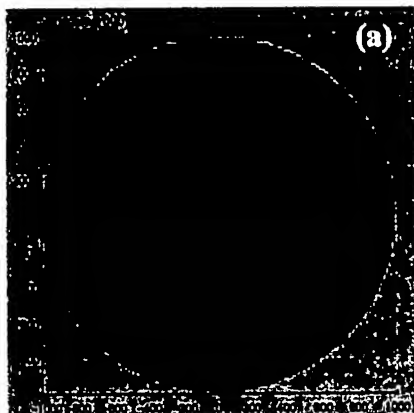


FIG 9(b)

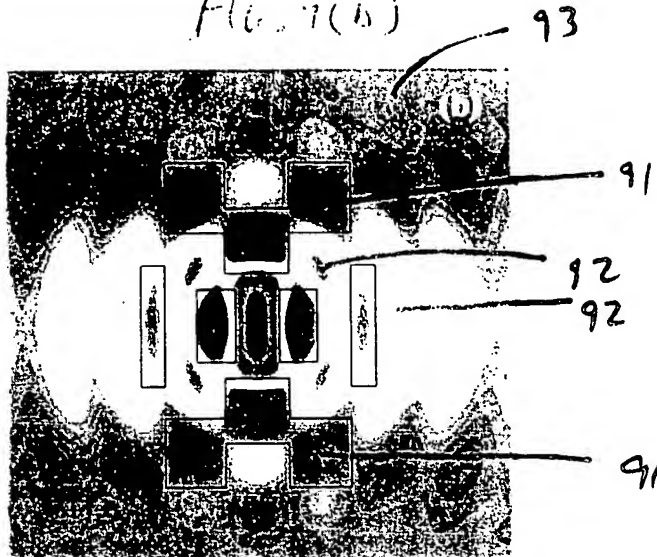
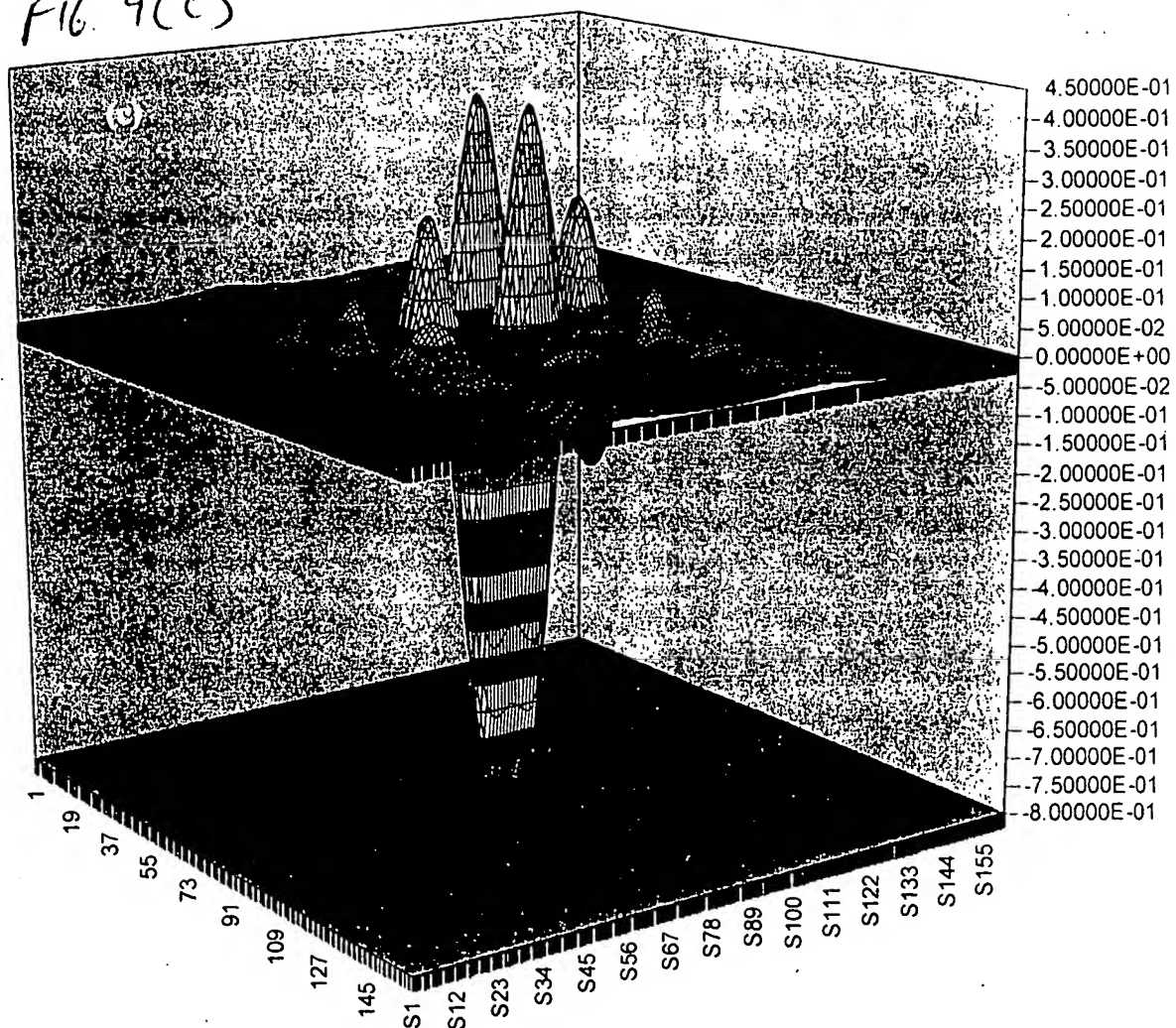


FIG 9(c)



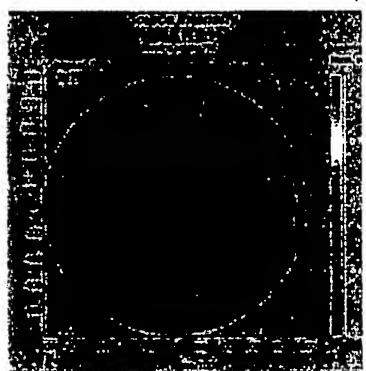
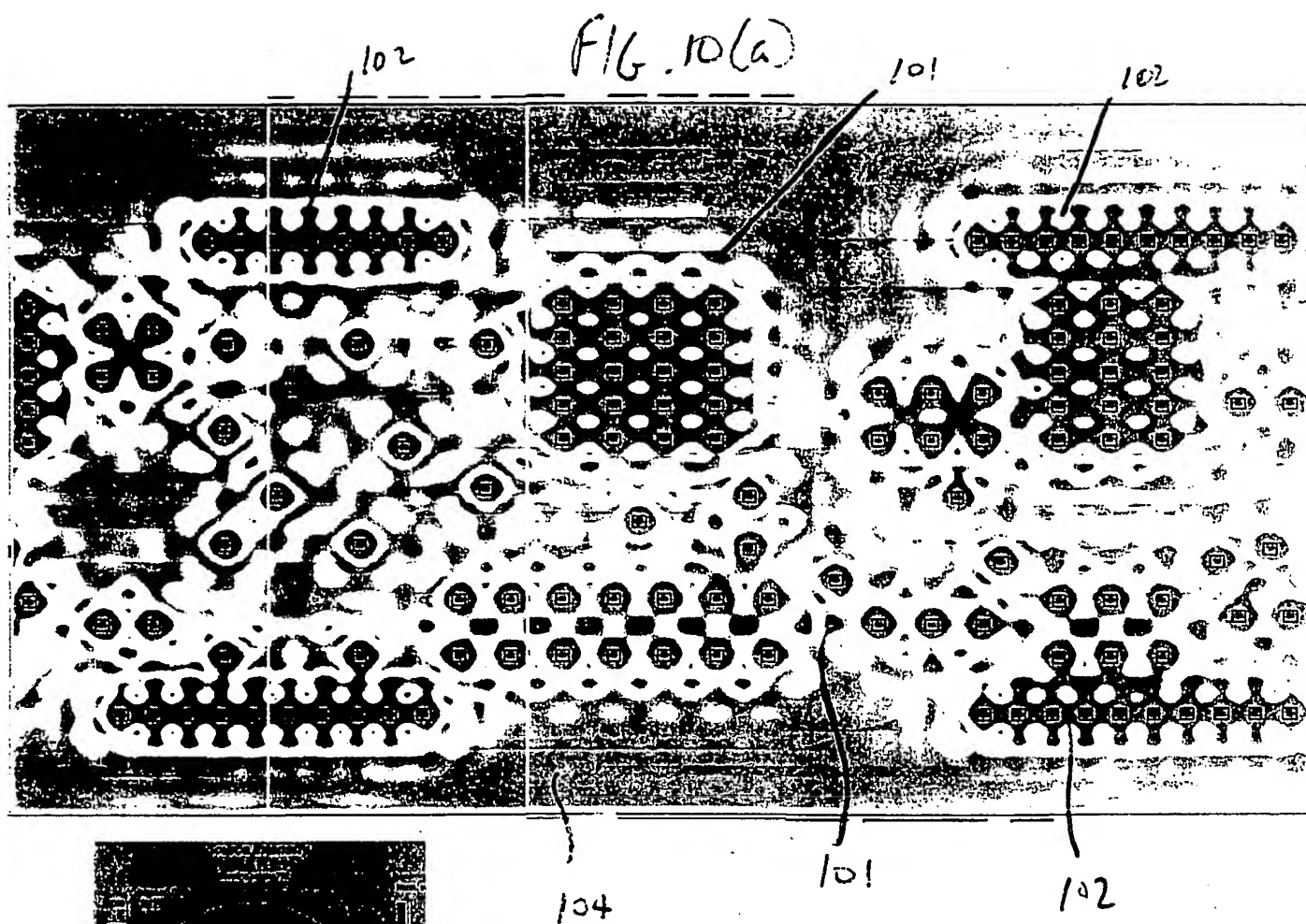


FIG. 10(b)

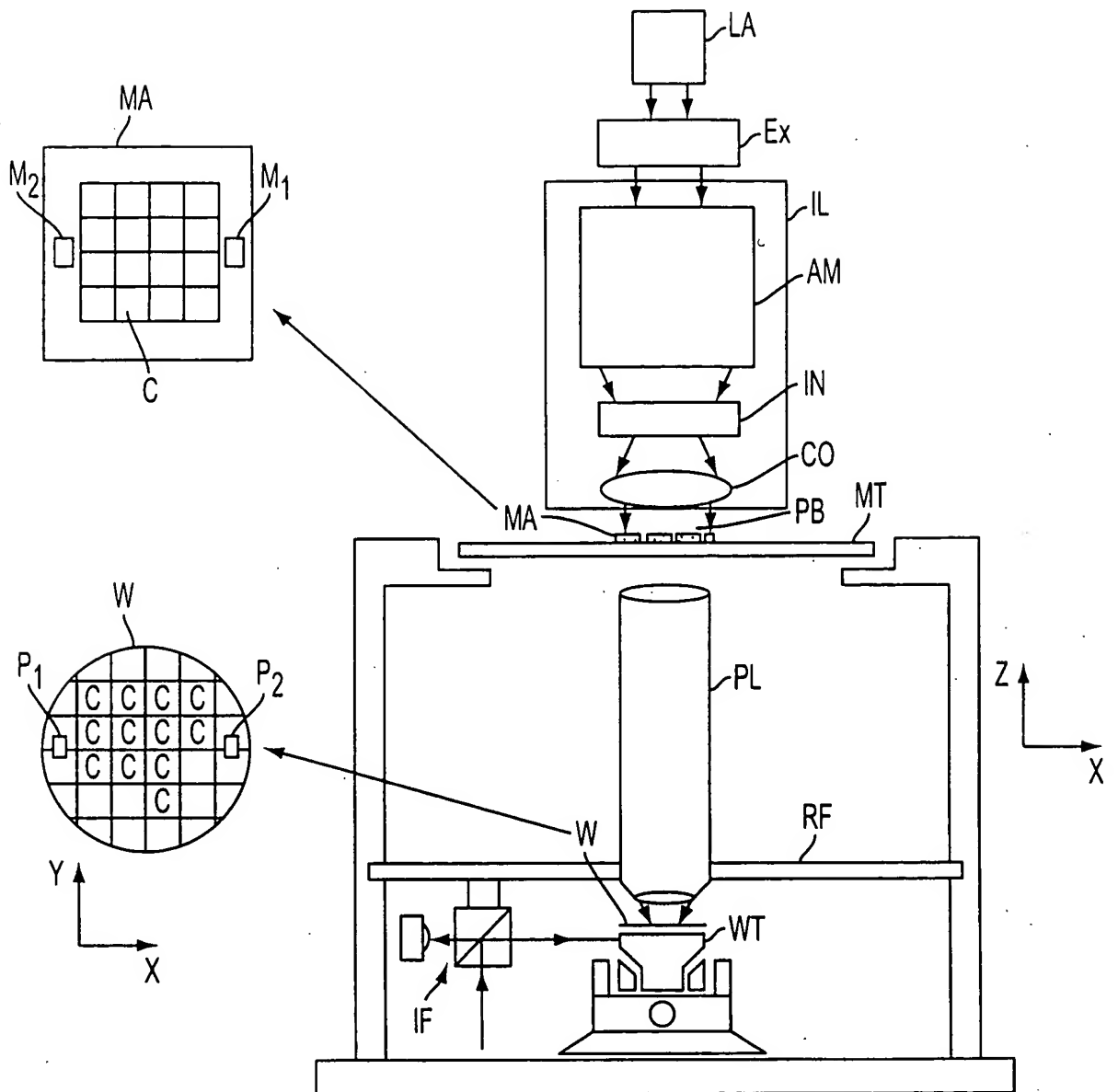


FIG. 11